CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.12/BTS/CSR-5/845a/CEMENT/2015-16 Date: 22.05.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Shettyhalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560079.
*NAME OF THE WORK	:	Providing improvements to roads & drains at Industrial area balance portion at Abbigere Lakshmipura Main Road, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
*REFERENCE	:	BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 20.05.2015
SAMPLE ID	:	Cement – Sample 3
SAMPLE RECEIVED ON	:	20.05.2015
PERIOD OF TESTING	:	20.05.2015 to 22.05.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	31.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VISHWANATH. I.A.
Chief Executive Officer

AE-12

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ಎಸ್.ಎಂ ಕೃಷ್ಣ ರಾಜೀವ್ಗನಗರ, ಬೆಂಗಳೂರು

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Dasarahalli Zone, Bangalore

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Job No.: CTCE/BBMP/W.No.12/BTS/CSR-5/845a/SAND-Gradation/2015-16 : 22.05.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560079.
* Name of Work	: Providing improvements to roads & drains at Industrial area balance portion at Abbigere Lakshmipura Main Road, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 20.05.2015
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates – Sample 3
Sample Received on	: 20.05.2015
Date of Testing	: 22.05.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.00	90-100	90-100	90-100	95-100
2.36	74.50	60-95	75-100	85-100	95-100
1.18	53.50	30-70	55-90	75-100	90-100
600 Micron	28.00	15-34	35-59	60-79	80-100
300 Micron	11.50	5-20	8-30	12-40	15-50
150 Micron	6.30	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.12/BTS/CSR-5/845a/AGG/GR/2015-16 : 22.05.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560079.
* Name of Work	: Providing improvements to roads & drains at Industrial area balance portion at Abbigere Lakshmipura Main Road, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 20.05.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm) – Sample 3
Sample Received on	: 20.05.2015
Date of Testing	: 22.05.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.50	95-100	85-100
20	38.50	30-70	0-20
10	16.50	10-35	0-5
4.75	2.00	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.12/BTS/STEEL/2015-16 23.05.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560079.
Name of the work	:	Providing improvements to roads & drains at Industrial area balance portion at Abbigere Lakshmipura Main Road, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 20.05.2015
Date of Test	:	23.05.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	552	13.05	O.K	O.K

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Job No.: CTCE/BBMP/W.No.12/BTS/STEEL/2015-16 23.05.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560079.
Name of the work	:	Providing improvements to roads & drains at Industrial area balance portion at Abbigere Lakshmipura Main Road, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 20.05.2015
Date of Test	:	23.05.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.25	O.K	O.K

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23/5

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Job No.: CTCE/BBMP/W.No.12/BTS/STEEL/2015-16 23.05.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560079.
Name of the work	:	Providing improvements to roads & drains at Industrial area balance portion at Abbigere Lakshmipura Main Road, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 20.05.2015
Date of Test	:	23.05.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	515	558	13.45	O.K	O.K

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Chief Executive Officer

AE - 12

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T-2377

Job No.: CTCE/BBMP/W.No.12/BTS/CSR-5/845a/CUBE/2015-16 24.06.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560079.

* **Name of the work** : Providing improvements to roads & drains at Industrial area balance portion at Abbigere Lakshmipura Main Road, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.

* **Reference** : BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 20.05.2015

* **Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 27.05.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.05.2015	24.06.2015	8.149	369.6	16.43
2	27.05.2015	24.06.2015	8.298	375.5	16.69
3	27.05.2015	24.06.2015	8.310	382.5	17.00

* Information is furnished by the Customer/Representative

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Chief Executive Officer

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T-2377

Job No.: CTCE/BBMP/W.No.12/BTS/CSR-5/845a/CUBE/2015-16 27.06.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560079.
* Name of the work	: Providing improvements to roads & drains at Industrial area balance portion at Abbigere Lakshmipura Main Road, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
* Reference	: BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 20.05.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 30.05.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.05.2015	27.06.2015	8.102	478.5	21.27
2	30.05.2015	27.06.2015	8.235	485.5	21.58
3	30.05.2015	27.06.2015	8.333	512.3	22.77

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27/6
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Job No.: CTCE/BBMP/W.No.12/BTS/WBM-III/2015-16

Date: 30.05.2015

REPORT

Client	:	**Asst. Executive Engineer**, Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560079.
Name of the Work	:	Providing improvements to roads & drains at Industrial area balance portion at Abbigere Lakshmipura Main Road, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 20.05.2015
Type of Mix	:	Water Bound Macadam (Grade-III Metal)
Date of Sampling	:	28.05.2015
Date of Testing	:	30.05.2015

1) SEIVE ANALYSIS:

IS Sieve designation Size,mm	Percentage Passing for Graded Aggregate of Nominal size	Percentage by Weight Passing as per MORTH table 400-7
63mm	100.00	100.00
53mm	97.55	95-100
45mm	64.15	65-90
22.4mm	6.70	0-10
11.2mm	2.65	0-5

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Job No.: CTCE/BBMP/W.No.12/BTS/WBM-II/2015-16

Date: 29.05.2015

REPORT

Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560079.
Name of the Work	:	Providing improvements to roads & drains at Industrial area balance portion at Abbigere Lakshmipura Main Road, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 20.05.2015
Type of Mix	:	Water Bound Macadam (Grade-II Metal)
Date of Sampling	:	27.05.2015
Date of Testing	:	29.05.2015

1) SEIVE ANALYSIS :

IS Sieve designation Size, mm	Percentage Passing for Graded Aggregate of Nominal size	Percentage by Weight Passing as per MORTH table 400-7
90mm	100.00	100.00
63mm	95.60	90-100
53mm	31.35	25-75
45mm	9.45	0-15
22.4mm	1.25	0-5

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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VISHWANATH. I.A.
Chief Executive Officer

AE-12
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